

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) ~~Liquid~~ A liquid dispenser, which comprises:

[[-]] a body part[[,]];

[[-]] a cylinder part arranged inside the body part;

[[-]] a suction plunger movably arranged inside the cylinder part;

[[-]] a primary means for moving the suction plunger to receive a sample; and

~~characterized in that the liquid dispenser further comprises:~~

[[-]] a secondary means for moving the suction plunger at an increased speed during an emptying movement to dispense the sample~~causing a speeded up emptying movement of the plunger.~~

2. (Currently amended) ~~Liquid~~ The liquid dispenser according to claim 1, wherein the secondary means comprises:

[[-]] an energy means, ~~which provides the~~ for providing energy needed by to move the suction plunger during the emptying movement;

[[-]] a locking means, ~~which locks the~~ for locking an activation of said energy means;

[[-]] a launch means, ~~which releases~~ for launching the said activation of the said energy means.

3. (Currently amended) ~~Liquid~~ The liquid dispenser according to claim 2, wherein:

[[-]] the energy means is a spring; and

[[-]] the locking means is a magnet; and

~~the launch means is a mechanical response.~~

4. (Currently amended) ~~Liquid~~ The liquid dispenser according to claim 3, wherein the ~~launching launch~~ means further comprises:

a function plunger disposed at an upper part of the body part of the liquid dispenser;

an actuator shaft with a magnetic property and which has a lower part and an upper part, wherein the actuator shaft is disposed such that the lower part of the actuator shaft is connected to the suction plunger and the upper part of the actuator shaft is connectable to a lower part of the function plunger via the magnet;

a launch means body which accommodates the upper part of the actuator shaft and the magnet;

a launch pin disposed at an upper part of the launch means body; and

an upper flange disposed in the upper part of the body part, wherein

the suction plunger is disposed at a lower part of the body part,

the spring is arranged to be strained between the launch means body and the actuator shaft, and

the launch pin, the upper flange, and the spring are arranged so that when the function plunger is moved upward in relation to the body part until the launch pin contacts the upper flange, the contact between the launch pin and the upper flange causes separation of the actuator shaft from the magnet, whereby the spring forces the actuator shaft in a downward movement to increase the speed of the suction plunger during the emptying movement—~~an actuator shaft with magnetic characters, which has a lower part and an upper part, and which actuator shaft is from it's lower part attached to the suction plunger arranged at the lower part of the body of the liquid dispenser, and from it's upper part in connection to the magnet, which magnet is connected from it's other end the a function plunger directed to the upper part of the body of the liquid dispenser;~~

~~—a launch means body, inside of which the upper part of the actuator shaft extends, and where the magnet is arranged;~~

~~—a combination, where the spring is arranged to be strained between the launch means body and the actuator shaft;~~

~~—a mechanical response, launch pin, arranged in the launch means body, which is from it's upper part able to be in contact with a response arranged in the body of the liquid dispenser;~~

~~—a function, wherein when the said contact occurs the upward movement in relation to the body of the liquid dispenser is continuable, whereat when continuing the movement the~~

~~launch pin is arranged to force the actuator shaft apart from the magnet, whereat the spring is arranged to force the actuator shaft into a downward movement.~~

5. (Currently amended) ~~Liquid-~~The liquid dispenser according to claim 1, wherein the liquid dispenser is an electronic dispenser, and the liquid dispenser further comprises a motor.

6. (Currently amended) ~~Liquid-~~The liquid dispenser according to claim 1, wherein the liquid dispenser ~~is a multi channel dispenser~~comprises multiple channels.

7. (Currently amended) ~~Liquid-~~The liquid dispenser according to claim 1, wherein the liquid dispenser is a hand held pipettor.

8. (Currently amended) ~~Method-~~A method for pipetting a sample with a liquid dispenser comprising

a body part;

a cylinder part arranged inside the body part;

a suction plunger movably arranged inside the cylinder part;

a primary means for moving the suction plunger to receive the sample; and

a secondary means for moving the suction plunger at an increased speed during an emptying movement to dispense the sample,

wherein the method comprises~~comprising the steps of:~~

[[-]] receiving the sample to a tip of the liquid dispenser ~~with~~ by suction movement achieved by the primary means;

[[-]] ~~removing~~ emptying the sample from the tip of the liquid dispenser;

characterized in that wherein

[[-]] the ~~removal~~ emptying movement for removing the sample from the tip is performed faster than the suction movement, and ~~this speeded up removal~~ the increased speed during the emptying movement is achieved by the secondary means.

9. (Currently amended) ~~Method~~ The method according to claim 8, ~~wherein the liquid dispenser comprises a body, a cylinder part arranged inside the body, a plunger movably arranged inside the cylinder part, means for moving the plunger, and secondary means for moving the plunger and to achieve a speeded-up movement of the plunger, which method further comprises~~ further comprising:

[[-]] activating the secondary means which move the plunger;

[[-]] receiving the sample; and

[[-]] releasing the secondary means which move the plunger to accomplish the secondary emptying movement of the plunger.

10. (Currently amended) ~~Method~~ The method according to claim 9, wherein ~~further the following steps are performed~~ activating the secondary means comprises

[[-]] locking an activation of an energy means for providing energy to move the suction plunger during the emptying movement, using locking means ~~catching the actuator shaft with the magnet; and releasing the secondary means comprises~~

[[-]] launching the activation of the energy means using launch means ~~releasing the magnet from the actuator shaft.~~

11. (Currently amended) ~~Method~~ The method according to claim 10, ~~wherein~~ wherein said energy means comprises a spring; and
said locking means comprises a magnet; and
wherein the method further comprises:

[[-]] when receiving the sample, moving the launch means upward to receive the sample when the magnet is in connection with ~~the~~ an actuator shaft of the launch means, the launching means are moved upwards when receiving the sample;

[[-]] when removing the sample, moving the launch means such that a launch pin of the launch means contacts an upper flange of the body part of the liquid dispenser ~~when removing the sample the mechanical response gets into contact with a response arranged in the body of the liquid dispenser;~~

[[-]] continuing the upward movement of the launching means until the launch pin releases the actuator shaft releases from the magnet, whereby the spring forces the actuator shaft in a downward movement to increase the speed of the suction plunger during the emptying movement[[;]]

[[-]] ~~forcing with a spring the actuator shaft released from the magnet into a speeded up downward movement for an efficient removal of the sample from the liquid dispenser.~~